

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: July 18, 2001, 15:54:31 ; Search time 13.86 Seconds
(without alignments)
1110.426 Million cell updates/sec

Title: US-09-587-111-5

Perfect score: 4004
Sequence: 1 MTSPPSSPVFRLETLIDGCOE.....EDEDGASENVYPVOLLQSN 764

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 193259 seqs, 20144635 residues

Total number of hits satisfying chosen parameters: 193259

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: Issued_Patents_AA:*
2: /cgn2_6/ptodata/2/1aa/5A.COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/5B.COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6A.COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/6B.COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/Backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1645.5	41.1	839	4 US-09-197-636-2	Sequence 2, Appli
2	1644.5	41.1	839	4 US-09-197-636-8	Sequence 8, Appli
3	1638.5	40.9	839	4 US-09-197-636-4	Sequence 4, Appli
4	151	3.8	1839	2 US-09-172-977-4	Sequence 4, Appli
5	150	3.7	1088	4 US-09-082-059-2	Sequence 2, Appli
6	148	3.7	843	2 US-09-172-977-3	Sequence 3, Appli
7	146	3.6	1095	4 US-09-112-096-15	Sequence 15, Appli
8	138.5	3.5	352	3 US-09-065-474-139	Sequence 19, App
9	138.5	3.5	1745	2 US-09-031-485-33	Sequence 33, Appli
10	138.5	3.5	1745	2 US-08-847-429A-33	Sequence 33, Appli
11	138.5	3.5	1745	2 US-09-065-474-33	Sequence 33, Appli
12	137	3.4	1533	1 US-08-623-679-9	Sequence 9, Appli
13	137	3.4	1533	3 US-08-933-774-9	Sequence 9, Appli
14	131	3.3	303	2 US-09-031-485-23	Sequence 23, Appli
15	131	3.3	303	2 US-08-847-429A-23	Sequence 23, Appli
16	131	3.3	303	3 US-09-065-474-23	Sequence 23, Appli
17	129	3.2	348	2 US-09-031-485-28	Sequence 28, Appli
18	129	3.2	348	2 US-08-847-429A-28	Sequence 28, Appli
19	129	3.2	348	2 US-09-065-474-28	Sequence 28, Appli
20	127	3.2	300	2 US-08-897-340-32	Sequence 32, Appli
21	127	3.2	300	4 US-09-252-329-32	Sequence 32, Appli
22	126	3.1	551	4 US-08-659-103B-25	Sequence 25, Appli
23	125.5	3.1	787	4 US-09-188-930-33A	Sequence 33A, App
24	125.5	3.1	1139	1 US-08-537-210A-4	Sequence 4, Appli
25	125.5	3.1	1139	4 US-09-113-825-4	Sequence 19, Appli
26	125.5	3.1	2703	1 US-08-185-432-19	Sequence 19, Appli
27	123.5	3.1	191	2 US-09-031-485-20	Sequence 20, Appli

28	123.5	3.1	191	2 US-08-847-429A-20	Sequence 20, Appli
29	123.5	3.1	191	3 US-09-065-474-20	Sequence 20, Appli
30	122	3.0	741	3 US-08-943-956A-2	Sequence 2, Appli
31	120.5	3.0	302	2 US-09-031-485-38	Sequence 38, Appli
32	120.5	3.0	302	2 US-08-847-429A-38	Sequence 38, Appli
33	120.5	3.0	302	3 US-09-065-474-38	Sequence 38, Appli
34	120.5	3.0	741	2 US-08-462-481-2	Sequence 2, Appli
35	120.5	3.0	741	2 US-08-436-771-2	Sequence 2, Appli
36	120.5	3.0	741	2 US-08-436-771-4	Sequence 4, Appli
37	120.5	3.0	741	2 US-08-434-998-2	Sequence 2, Appli
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40	120.5	3.0	741	2 US-08-487-797-4	Sequence 4, Appli
41	120.5	3.0	741	2 US-08-701-005A-2	Sequence 2, Appli
42	120.5	3.0	741	2 US-08-479-895-2	Sequence 2, Appli
43	120.5	3.0	741	5 PCT-US95-02058-2	Sequence 2, Appli
44	120.5	3.0	741	5 PCT-US95-02058-4	Sequence 4, Appli
45	119.5	3.0	357	2 US-08-031-538-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-09-197-636-2
: Sequence 2, Application US/09197636
: Patent No. 6239267
: GENERAL INFORMATION:
: APPLICANT: DUCKWORTH, DAVID
: APPLICANT: HAYES, PHILIP
: APPLICANT: MEADOWS, HELEN
: APPLICANT: DAVIS, JOHN
: TITLE OF INVENTION: NOVEL COMPOUNDS
: NUMBER OF SEQUENCES: 8
: CORRESPONDENCE ADDRESS:
: ADDRESS: Ratner & Prestia
: STREET: P.O. Box 980
: CITY: Valley Forge
: STATE: PA
: COUNTRY: US
: ZIP: 19482-0980
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/197,636
: FILING DATE: 23-NOV-1998
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: UK 9805137.8
: FILING DATE: 12-MAR-1998
: APPLICATION NUMBER: UK 9815791.0
: FILING DATE: 21-JUL-1998
: APPLICATION NUMBER: UK 9819278.4
: FILING DATE: 03-SEP-1998
: ATTORNEY/AGENT INFORMATION:
: NAME: Prestia, Paul F
: REGISTRATION NUMBER: 23,031
: REFERENCE/DOCKET NUMBER: GP-30075
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 601-407-0700
: TELEFAX: 610-407-0701
: TELEX: 846169
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 839 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-09-197-636-2

Query Match	41.1%;	Score 1645.5;	DB 4;	Length 839;
Best Local Similarity	48.5%;	Pred. No. 9.1e-147;		
Matches 344;	Conservative 121;	Mismatches 200;	Indels 45;	Gaps 11;

QY	74	FDRLFAVARGVPEDLADPELSTYKSLDSEFTEESTGTCMKRVNLKDVNA	1 33
Db	113	YDRSIFEAVAQNQCDDLESLLFLQKSKHLDNDEKDEGTCTCLKMLNHQONT	1 72
QY	134	CILPCLLOIDRDSGNBPOLVNAOCTDDYVREGSHALHAIIEKRSLOQCVLLVENGANVHARA	1 93
Db	173	TIPLLLEIAROTDSEIKELVNASYDYSYGGOTATHAIEERNMALVYLLIENGADYQAAA	2 32
QY	194	CGRFGKOG--TCFYFGLPLSLAACRKMDDVSYLLENHOPASLOATPOSGTIVHAL	2 52
Db	233	HGDFEFTKKGPRGYFGEELPLSLACTNOGLYKVELQNSMOTADISARDSVGTIVHAL	2 92
QY	253	VMISDASAENIALVTSMDGLLOAGARICPTVOLEDIRLODLPPLKIAKEGKIEIFRH	3 12
Db	293	VEVADNTADNTKPEVTSWNEILLIGAKLHPTLKEELTNKGMPTLAAGTGIGVLAV	3 52
QY	313	ILOREFS--GLSHSRKFTKMCYPRVAVSLYDLASVDSCEVSLLEIAR--HCKSPRRR	3 69
Db	353	ILQREIDPECRHLSRKFTFEAVGYVSHSLYDISCIDTCERNSLVEYIAVSSSTPRHD	4 12
QY	370	MVLEPLKLLQAKWDLIIP--PEFLNLCNLIYFIPTAAVYHOPTLKQOAPHLKAE-V	4 27
Db	413	MLVLEPLNRLLQDMKDFVRIKIEFNFLYCVLMIITMAAYRVP---DGLRPFKMEKT	4 69
QY	428	GNSMLLGHILLIGIYLLVGLQMTVRRRHVETWISFIDSYEILFLFOALLTVVSQVL	4 87
Db	470	GDYRVYVGEILSYVGAYVEFFRGIQVFLQRPMSKLTFFVDSYSEMEFLQSLMELATVVL	5 29
QY	488	CFELAEWLLPLVSAVLGYMLNTLYYRGFOHNTSYVMLOKTVLRPLLEFILLYELF	5 47
Db	530	YFSLKLEVASMVSIALGTMILYTRRGQOMGIVAMIEKMLTRLCRFMYIYELF	5 69
QY	548	GFAVALVSLQSEA-----WRPEAPGPNATESVQPMWEGODEGNGAQYRGIL	5 94
Db	590	GFSAVAVYLLIEDGKNDSLPSESTSHRRRGPACRPDSS-----YNSLY	6 32
QY	595	EASLELFEFTIGMELAPFOBDLHGRGAVLLLLAVYLLTYLLNMLIAMSETVNSVAT	6 54
Db	633	STCIELEKFTIGMDLFEFTETVDFKAAFTILLALAYLLITTYLLNMLIAMGEVYNKIAQ	6 92
QY	655	DSMSIMKLQKASIVLEMGNYWMC--RKORAGVALYGTGRPDGSPDERMCFRVEEYVMAAS	7 13
Db	693	ESKNIMKLQRAITILLDTEKSPFLKCMKRAFRSGKLLQGYTPPDGMDYRWCFRDEVVMTT	7 52
QY	714	MEQRLPILCEBPSGA--GVPRILENPNVLASPPKEDBDGASENVYVQOLQ	7 62
Db	753	WNTVNGIINEDPGNCEVYKRLSLSS---RVSGRHKMKNALVALPDLR	7 98

RESULT 2
 US-09-197-636-8
 : Sequence 8, Application US/09197636
 : Patent No. 6239287
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: DUCKWORTH, DAVID
 : APPLICANT: HAYES, PHILIP
 : APPLICANT: MEADOWS, HELEN
 : APPLICANT: DAVID, JOHN
 : TITLE OF INVENTION: NOVEL COMPOUNDS
 : NUMBER OF SEQUENCES: 8
 : CORRESPONDENCE ADDRESS:
 : ADDRESS: Ratner & Prestia
 : STREET: P.O. Box 980
 : CITY: Valley Forge
 : STATE: PA
 :
 : COUNTRY: US
 :
 : ZIP: 19482-0980

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Fastseq for Windows Version 2.0
CURRENT APPLICATION DATA: 00 0000 000

Query Match	41.1%	Score 1644.5	DB 4	Length 839
Best Local Similarity	48.5%	Pred. No. 1.1e-146		
Matches 344	Conservative 121	Mismatches 200	Indels 45	Gaps 11
74	FDRLDLFNAVSRGVDEDLAIPETVLSKTSKYTLTDESETEGSGTKCLMKAVNLMDGVNA	133		
DB	113 YRRSRFEFVAVNANNQDDLESILLFLOKSKHLITDNEFNDPERGKCLLKAMNLHGDQNT	172		
QY	134 CILPLIÖDROSGNPÖPLVNAOCTDDYIRGSHALHIAIEKSLÖCQKVLVNGAVNARA	193		
DB	173 TPLPLEIARQDTSLEKEVLNASYTSOYKGGQALHAIERMMALVYTLVLVNGADVQAA	232		
QY	194 GGRFQKGGG-TGCFEGLPLSLACTOMÖVSVYTLLENPHQAPASLOADSGNVIAL	252		
DB	233 HEDFERKTRGPRGFYFGEPLSLACTMÖLGIVKFLQDSMÖTADISADSVGNVIAL	292		
QY	253 VMSNSAENIALVMSMDGLQACARLCPTVQLEDIRNLDTLPDLKAANEKGKIEFRH	312		
DB	293 VEVANNTADNKEFVMSNEILILGAKLHPTLKLELNLKKGMPFLALAAAGKIGVLAY	352		
QY	313 ILÖREFS--GISHSRKFTQWCYGVRSVLYDASVDSCEENSVLIEIAF-HCKSPHRH	369		
DB	353 ILÖREIOEBCHEILSRKFTQWAGVSHSLYDSCIDCEKNSVLEVIAYSSSETPNRHD	412		
QY	370 MYVLEPIKKLÖAKKDDLLPK-FEINFLCNLTLYMIETPAVAVHOPTLKAQAPHLKAE-V	427		
DB	413 MLVLEPIKKLÖAKKDDKREVRKIEYFNELVYLCYLMITFLMAAYRV---DGLPRPKMKT	469		
QY	428 GNSMLTGTGHIILLAGIYLVQOLVYFMRNHFVIMISFIDSYFELLFEOALLTVVSOVL	487		
DB	470 GDYFRVGTGEILSVLGCVFFRFGIOYFLÖRRSMKTLFVDSSEHLFLOSLFMALATVVL	529		
QY	488 CFELAEWYLPVLVSALVIGWMLNLYYTRGFOHTGITYSVMIÖKVILLDLRLPLLYLVEF	547		
DB	530 YESHUKKEYVAVSVFSLAGMTNMLYTRGFQÖMGIVAVIMEKMLRLDLCRFMEYVVELE	589		
QY	548 GAAVALVSLSDCA-----KRPPEAPYGNATESVQPMGÖDEGNGAÖYRIL	594		
DB	590 GGTAVYVLLIEGKNDLSPSESTSHRMGPAÖCRPDDSS-----YNSLY 632			

QY	84	SRGPEYDIAG-LPEYLSKTSKYLTDS-----EYTGSGNGKTCIMAVYLNLDG-----V	133
Db	342	SSAKKEKIVRLPPTVYSRLSEEFESIKYAKKEILECSH-----LITVTKMEADGEIYS	396
QY	132	NACILPELLQI-----DRDSGNQ-----PLVNAQCTDDYRGHSA-----LHIA	170
Db	397	NAISVAYLAKAFSTSEQOKDMWNGQLKLEBMQDLDADEIFINDRMESADLOEYMF7A	456
QY	171	IEKSLQCVKLIVNGANVARRACGRFQGGQGTCTYFGELPLSLACTKQNDVSYSTLE	230
Db	457	LIKRPFVRLFELENGINLR-----KDLTH-----DVLTLEFS	489
QY	231	NPHQASLQATDSQGNVLAHALVYSDNSAENIAVTSMYD-----GLLOAGARLCPTVQLED	288
Db	490	N-----HFSTLVRINLOIANKS-YNALLLTFEYWKLVANFRGRF-----KE	529
QY	289	IRN-----LQDIPLFLAKAEGKIEIFRHILQREF-----SGLSHRKFTWCYGP	335
Db	530	DRNGRDEMDIELHDVSP-----IRHPLQALFLIALLQNNKELSKYIWDERTRC	578
QY	336	VRVSL-----YDIASVD-----SCENSYLEIIA7H	361
Db	579	TILALGASKLTKTAKYKNDINNAESEEELANVETRAVELFECEYSSEDIAEOLLYVS	638
QY	362	CKSHRRHRYVLEPLNKLQAKKDLLIPKFLNLCNLIYMF-----FTVAAYHQPTL	415
Db	639	CEA-----WG-----GSCNLEAVEATDQHF7AOPGVONFL	669
QY	416	KQQAAPHLKAEVGN-SMLTGHILLIGIYLLVGO-----LWYF-----	454
Db	670	SKWYVGLSNDRTKMKIILCLFLIPLVCGCFVSFRKKRPYDKHKKLLMYVAFFTSPLYF	729
QY	455	WRHVEFWISFIDSYFEILFL-FQA-----LTTYVSOYLCFLAIEMLYPLLSAL-	503
Db	730	SM-NVEFYIAFLFLFAVYVLLMDPHSVHPPELVYLSLVEFLCEDVRQWY---VNGVN	783
QY	504	VLGHLNLIYTRGF-----QHTGIYS-----	524
Db	784	YFTDLAMWMDTLGFIYFIAGIVFLRHSSNNSSLYSGRVIFCLDYIIFTLRLIHIFVSRN	843
QY	525	-----VMIOKVLIEDLRFLLIYVFLFGFAVA---LVLSLSQEAMR-----	562
Db	844	LGPFIIMLQRLI-DVFFFLFRAVMVAFAVGAROGILRONEDGRMWIRFSYIEPYLAM	902
QY	563	PEAPTPGNAT-----ESVOPMEGOEDENGCAQYRGILAEASLELFFFTIGMGL	610
Db	903	FGQVPSQVDGTTVDPAHCTFTGMSKPLCYLDEHN-----LPRFP-----	943
QY	611	AFQOLHFRCGVALLLLAAYVLLYLLLNMLIALMSEFVNSVATDSWISWKLQAKISYLE	670
Db	944	-----EMTTPLYVCITYMLSTNILLVNLVLMFYGTVGOENNDDQYMKFORFVLQD	995
QY	671	-----MENGYWV-----CHKKRAQVMLTVGKPKDGSDEDMCRVEVEY	709
Db	996	YCSRLNIPEPPIYAFYAYVYVKKCFCKCCKCEKKNMESSVC-----CEKNEBN	1041
QY	710	NMASME	715
Db	1042	ETLAME	1047
RESULT 8			
US-09-065-474-139			
Sequence 139, Application US/09065474			
Patient No. 6063599			
GENERAL INFORMATION:			
APPLICANT: Tang, Liang			
APPLICANT: Blehm, E. Scott			
TITLE OF INVENTION: DIOPHILARIA AND BRUGIA ANKRIN			
TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND			
TITLE OF INVENTION: USES THEREOF			
NUMBER OF SEQUENCES: 171			
CORRESPONDENCE ADDRESS:			

```

1 ADDRESS: Carol Talkington Verser, Ph.D.
2 ADDRESSEE: Heska Corporation
3 STREET: 1825 Sharp Point Drive
4 CITY: Fort Collins
5 STATE: Colorado
6 COUNTRY: USA
7 ZIP: 80525
8
9 COMPUTER READABLE FORM:
10 MEDIUM TYPE: Floppy disk
11 COMPUTER: IBM PC compatible
12 OPERATING SYSTEM: Windows 95
13 SOFTWARE: Wordperfect for Windows, Version 7.0
14 CURRENT APPLICATION DATA:
15 APPLICATION NUMBER: US/09/065,474
16 FILING DATE: 24-APR-1998
17 CLASSIFICATION:
18 ATTORNEY/AGENT INFORMATION:
19 NAME: Verser, Carol Talkington
20 REGISTRATION NUMBER: 37,459
21 REFERENCE/DOCKET NUMBER: HM-5-C1
22 TELECOMMUNICATION INFORMATION:
23 TELEPHONE: 970/493-7272
24 TELEFAX: 970/484-9505
25 INFORMATION FOR SEQ ID NO: 139:
26 SEQUENCE CHARACTERISTICS:
27 LENGTH: 352 amino acids
28 TYPE: amino acid
29 TOPOLOGY: linear
30 MOLECULE TYPE: Protein
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Query Match          3.5%; Score 138.5; DB 3; Length 352;
Best Local Similarity 25.1%; Pred. No. 7.7e-05;
Matches 59; Conservative 33; Mismatches 84; Indels 59; Gaps 9;

QY      167 LHAIEKRSLOCVKLIVNGANVHARACGRFPQKGOGTCFYFGELPLSLAACKTQMDDVS 226
        ||| : : : ||| : ||| : | | : ||| : | | : |
Db       147 LHVAHVNRDKRVALLLLENGASAHNAAKN-----GYPRPHIAAKKNQMDIAS 193

QY      227 YLLENPHOPASLDQTDGSGTVNALHWIMISDSAEINILWYSMTGGLLDAGRLCPTVOL 286
        ||| : | : | : | : | : | : | : | : | : | : |
Db       194 TLL---HYKANAMNESKAGFTPLH--LAAOEGHREMAAL-----LIENGAKVGAQAAR- 240

QY      287 EDINLDLPFLKIKAKEGTIEIFHHIIORES-----GLSHSRKF 328
        ||| : | : | : | : | : | : | : | : | : | : |
Db       241 -----NGLTPMHLCQAODRVSABEELKENAADPKTKAGTPLHLVACHFQIINVRL 294

QY      329 TEMCYGPBRVSLDYLDASVDCEE-----NSYLEIIAFCKSPHRHRMVLEPLN 377
        | : | : | : | : | : | : | : | : | : | : |
Db       295 IE-HGARVSVITRASVTPLHQAAQGCHNSVVRYLLEHGASPNVHTSTGCTPLS 346

RESULT      9
US-09-031-485-33
; Sequence 33, Application US/09031485
; Patent No. 5824306

GENERAL INFORMATION:
APPLICANT: Tang, Liang
APPLICANT: Blehm, E. Scot
TITLE OF INVENTION: DIROFILARIA AND BRUGIA ANKYRIN
TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND
TITLE OF INVENTION: USES THEREOF
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carol Talkington Verser, Ph.D.
ADDRESSEE: Heska Corporation
STREET: 1825 Sharp Point Drive
CITY: Fort Collins
STATE: Colorado
COUNTRY: USA
ZIP: 80525

COMPUTER READABLE FORM:
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1  APPLICATION NUMBER: US/08/847,429A
2  FILING DATE: 24-APR-1997
3  CLASSIFICATION: 435
4  ATTORNEY/AGENT INFORMATION:
5  NAME: Verser, Carol Talkington
6  REGISTRATION NUMBER: 37,459
7  REFERENCE/DOCKET NUMBER: HW-5
8  TELECOMMUNICATION INFORMATION:
9  TELEPHONE: 970/493-7272
10 TELEFAX: 970/484-9505
11 INFORMATION FOR SEQ ID NO: 33:
12 SEQUENCE CHARACTERISTICS:
13     LENGTH: 1745 amino acids
14     TYPE: amino acid
15     TOPOLOGY: linear
16     MOLECULE TYPE: protein
17     ;
18     ;
19     US-08-847-429A-33

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Query Match	3.58;	Score 138.5;	DB 2;	Length 1745;
Best Local Similarity	25.18;	Pred. No. 0.00097;		
Matches 59;	Conservative 33;	Mismatches 84;	Indels 59;	Gaps 9;

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QY      167 LHTAIETKRSIQCVKLLVENGANVHARCGRFQGGGTCFFYFGELPLSLACTKQWDVYS  226
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Db      582 LHTAAHYNNNDKVALLLLENGASAAHAAKN-----GTYPLHTAAKKNDQDIAS  628

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0y      287 EDIRNLQDPLPKLAAKEGKIEIFRHLQREPS-----GLSHSRKF 328
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Db      676 -----NGLTPMHLCAQEDRVSAAELVKENAIIDPKTAGYTPLVACHGQINNVREL 729

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OY 329 TEMCYGPARVSLYLIDLASVDSCEE-----NSVLEIIAHCCKSPRRHRMVLLEPLN 377
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DB 730 IE--HG-ARSVITRASYPTRLQAAQGHSNVRYLLEGASPNVHTSTGOTPLS 781

RESULT 11
US-09-065-474-33

: TITLE OF INVENTION: DIOFILARIA AND BRUGIA ANKRYIN
 : TITLE OF INVENTION: PROTEIN, NUCLEIC ACID MOLECULES, ANTI-
 : TITLE OF INVENTION: USES THEREOF
 : NUMBER OF SEQUENCES: 171
 : CORRESPONDENCE ADDRESS:

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; STATE: Colorado
; COUNTRY: USA
; ZIP: 80525
; COMPUTER READABLE FORM:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 303 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-847-429A-23

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Query Match 3.3%; Score 131; DB 2; Length 303;
 Best local Similarity 28.0%; Pred. No. 0.00031;
 Matches 73; Conservative 34; Mismatches 78; Indels 76; Gaps 17;

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QY 139 LQIDRSGNPQPLVNAQCTDDYRGSHALIAIEKRSLOCVKLV-----ENGAN 188
      | : | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 26 LILDR---NADP---NARALN---GFTPLHIACKKNRIKIVELLKRYHAIEATTESGLS 76
      : | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 189 -VHARACGRFFQGGGCTCFE-----GELPLSLACTKQMDVVSYLENPHQ 234
      : | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 77 PLHVAA---FMGAINIVIYLLQOGANADVATVVGETPLHLAARANOQDIVRVLVRN--- 129
      : | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 235 PASLQATDSQNTVLHALVMIISDNSAENIALVTSWYDGLQAGARLCPVQLEDIRNLQD 294
      | : | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 130 GAQVDAARRELQTPPLIASRLGN-----TDIVILLIQANA--SPNATRDL----- 173
      : | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 295 LTPKLAAKEGKIEIFRHII-----QREFSGLSHSRKFTENCYG--PVRSLYD 342
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 174 YTPPLHIAAKEGEVAAIILMDHGTDKTLTKKGFPL-HLAAK-----YGNLPVAKSILE 227
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QY 343 LAS-VDSCEENSYLEI-IAFH 361
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Db 228 RGTPTDIEGKNQVTPPLHVAAH 248

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Search completed: July 18, 2001, 15:59:03
 Job time: 272 sec

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